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(71)Applicant : MITSUI CHEMICALS INC

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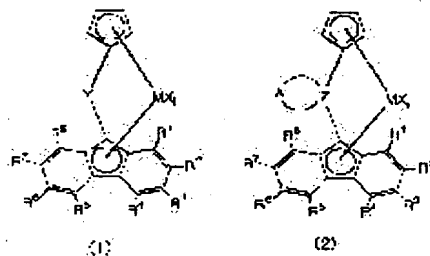
(72)Inventor : MORI RYOJI
DOI YASUSHI
KIZU KOICHI
URAKAWA NAOMI

(54) PRODUCTION METHOD FOR ETHYLENE COPOLYMER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a production method for an ethylene copolymer wherein copolymerization is performed with a high polymerization activity and a high copolymerizability and whereby an ethylene copolymer having a high molecular weight and a low branched structure content can be produced.

SOLUTION: In the production method for (A) an ethylene copolymer, ethylene is reacted with an α -olefin and/or a polyene in the presence of a catalyst system consisting of (a) a transition metal complex of formula (1) or (2) and (b) a compound which reacts with the transition metal M in component (a) to form an ionic complex. In formula (1) or (2), R1 to R8 are each H, a hydrocarbon group or an Si-containing hydrocarbon group, provided adjacent groups of them may combine with each other to form a ring; M is Ti, Zr, Hf, Rn, Nd, Sm or Ru; X is a halogen, a hydrocarbon group or a ligand; j is 1-4; Y is O, S, an Si-, Ge-, Sn-, B-, P- or N-containing hydrocarbon group or the like; A is a divalent hydrocarbon group, provided A may contain two or more rings including a ring formed by A together with Z; and Z is C or Si.



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